

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00629_2 ~ C1216XT-10LXXK-NDEX-TCY-GLXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00629_2_M-10L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 9/20/2017

[UPDATE] 3/9/2018

[LUMCAT] C1216XT-10L-xxK-ND-EX-TCY-GL

[LUMINAIRE] Nom. 12" Diam. x 16" H. Accent Biaxial Adjustable Downlight Cylinder

[OTHER] Internal Reflector, Narrow Beam

[OTHER] Clear Glass Lens, Flush with Lower Trim

[OTHER] 20.3 Degree Beam Angle

[OTHER] Aimed at 0 Degrees (Nadir)

[LAMPCAT] N/A, 19mm LES

[LAMP] N/A, 83 CRI

[OTHER] Total Luminaire Watts is approximate

[OTHER] LEDXT lumen output is the same for all available CCT's

[OTHER] This report prepared by Spectrum Lighting, scaled from 30L

CHARACTERISTICS

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 899 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 99 |
| Total Luminaire Watts | 9.1 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.36 |
| Spacing Criterion (90-270) | 0.36 |
| Spacing Criterion (Diagonal) | 0.38 |
| Basic Luminous Shape | Circular |
| Luminous Length (0-180) | 0.44 ft (Diameter) |
| Luminous Width (90-270) | 0.44 ft (Diameter) |
| Luminous Height | 0.00 ft |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00629_2 ~ C1216XT-10LXXK-NDEX-TCY-GLXXMW.IES****LUMINANCE DATA (cd/sq.m)**

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 12486 | 13240 | 12291 |
| 55 | 6819 | 6680 | 6827 |
| 65 | 1167 | 1343 | 1345 |
| 75 | 1926 | 1779 | 1596 |
| 85 | 1448 | 1882 | 1919 |

IES INDOOR REPORT

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CANDELA TABULATION

| | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> | <u>112.5</u> | <u>135.0</u> | <u>157.5</u> | <u>180.0</u> | <u>202.5</u> |
|-----|------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|
| 0 | 2684.149 | 2684.149 | 2684.149 | 2684.149 | 2684.149 | 2684.149 | 2684.149 | 2684.149 | 2684.149 | 2684.149 |
| 5 | 2313.005 | 2379.974 | 2343.642 | 2372.566 | 2308.956 | 2241.978 | 2253.747 | 2149.999 | 2181.010 | 2111.264 |
| 10 | 1433.604 | 1520.153 | 1468.489 | 1509.526 | 1415.175 | 1340.716 | 1344.238 | 1231.698 | 1260.750 | 1183.941 |
| 15 | 729.232 | 781.624 | 744.563 | 765.409 | 701.169 | 658.777 | 654.687 | 595.653 | 607.618 | 570.040 |
| 20 | 427.850 | 444.842 | 428.506 | 433.181 | 405.140 | 393.780 | 391.677 | 378.539 | 380.995 | 373.367 |
| 25 | 355.064 | 358.858 | 353.451 | 351.595 | 342.575 | 338.091 | 339.195 | 339.448 | 340.837 | 341.678 |
| 30 | 332.017 | 334.965 | 331.216 | 328.923 | 322.874 | 318.864 | 320.058 | 319.032 | 321.461 | 319.808 |
| 35 | 299.988 | 305.081 | 300.846 | 300.868 | 294.170 | 287.787 | 287.149 | 277.874 | 278.862 | 269.244 |
| 40 | 219.914 | 233.657 | 228.596 | 231.536 | 217.140 | 200.294 | 197.607 | 177.251 | 175.954 | 162.554 |
| 45 | 125.972 | 133.115 | 133.576 | 129.052 | 124.004 | 110.088 | 108.626 | 98.158 | 94.373 | 88.899 |
| 50 | 89.719 | 90.612 | 88.699 | 88.716 | 86.086 | 84.999 | 86.693 | 83.774 | 78.704 | 76.859 |
| 55 | 55.803 | 58.297 | 54.671 | 58.313 | 55.874 | 53.613 | 59.193 | 54.677 | 55.096 | 49.706 |
| 60 | 17.518 | 19.013 | 18.098 | 19.332 | 18.953 | 18.027 | 20.989 | 19.272 | 20.558 | 18.826 |
| 65 | 7.040 | 7.432 | 8.097 | 7.621 | 8.110 | 9.365 | 11.300 | 10.375 | 10.937 | 9.808 |
| 70 | 6.848 | 8.130 | 6.944 | 6.591 | 7.029 | 8.644 | 8.954 | 10.508 | 9.958 | 10.882 |
| 75 | 7.113 | 5.460 | 6.571 | 5.892 | 5.893 | 9.108 | 10.364 | 9.980 | 11.114 | 9.840 |
| 80 | 3.823 | 5.081 | 4.729 | 4.760 | 4.716 | 8.995 | 7.834 | 8.547 | 9.114 | 8.303 |
| 85 | 1.801 | 2.192 | 2.340 | 2.608 | 2.386 | 6.336 | 4.931 | 4.984 | 5.540 | 5.194 |
| 90 | 0.768 | 0.224 | 0.595 | 0.273 | 0.411 | 2.856 | 1.342 | 3.371 | 1.304 | 3.868 |
| 95 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 100 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 105 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 110 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 115 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 120 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 125 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 130 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 135 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 140 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 145 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 150 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 155 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 160 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 165 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 170 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 180 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

Vert. Horizontal Angles

| | <u>225.0</u> | <u>247.5</u> | <u>270.0</u> | <u>292.5</u> | <u>315.0</u> | <u>337.5</u> | <u>360.0</u> |
|----|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 0 | 2684.149 | 2684.149 | 2684.149 | 2684.149 | 2684.149 | 2684.149 | 2684.149 |
| 5 | 2159.645 | 2110.877 | 2174.616 | 2253.819 | 2240.284 | 2333.325 | 2313.005 |
| 10 | 1237.983 | 1191.466 | 1265.728 | 1353.413 | 1345.742 | 1454.898 | 1433.604 |
| 15 | 596.136 | 575.785 | 617.470 | 671.653 | 675.086 | 740.806 | 729.232 |
| 20 | 382.347 | 375.938 | 390.826 | 405.339 | 408.523 | 431.964 | 427.850 |
| 25 | 344.307 | 343.178 | 345.735 | 350.264 | 350.247 | 355.379 | 355.064 |
| 30 | 323.228 | 321.070 | 325.334 | 329.871 | 330.026 | 333.575 | 332.017 |
| 35 | 276.930 | 269.975 | 284.434 | 290.559 | 291.893 | 301.295 | 299.988 |
| 40 | 169.087 | 164.921 | 177.099 | 193.440 | 197.465 | 219.053 | 219.914 |
| 45 | 94.144 | 94.273 | 94.928 | 106.526 | 109.793 | 123.198 | 125.972 |

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| | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|
| 50 | 82.430 | 81.032 | 86.214 | 83.800 | 85.798 | 89.667 | 89.719 |
| 55 | 53.933 | 49.332 | 53.927 | 54.841 | 52.965 | 57.435 | 55.803 |
| 60 | 18.453 | 17.555 | 16.155 | 18.267 | 16.400 | 18.292 | 17.518 |
| 65 | 9.678 | 10.611 | 8.574 | 7.679 | 8.587 | 7.831 | 7.040 |
| 70 | 9.165 | 9.551 | 9.229 | 5.346 | 5.691 | 5.904 | 6.848 |
| 75 | 9.718 | 10.018 | 9.333 | 6.361 | 7.074 | 6.409 | 7.113 |
| 80 | 8.621 | 8.546 | 8.798 | 4.286 | 4.523 | 4.124 | 3.823 |
| 85 | 4.891 | 4.828 | 5.881 | 1.370 | 1.701 | 1.952 | 1.801 |
| 90 | 1.471 | 2.775 | 2.889 | 0.414 | 0.449 | 0.171 | 0.768 |
| 95 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 100 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 105 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 110 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 115 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 120 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 125 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 130 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 135 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 140 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 145 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 150 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 155 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 160 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 165 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 170 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 180 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00629_2 ~ C1216XT-10LXXK-NDEX-TCY-GLXXMW.IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|--------|-------|--------|
| 0-20 | 395.28 | N.A. | 44.00 |
| 0-30 | 559.08 | N.A. | 62.20 |
| 0-40 | 730.70 | N.A. | 81.30 |
| 0-60 | 874.78 | N.A. | 97.40 |
| 0-80 | 893.92 | N.A. | 99.50 |
| 0-90 | 898.11 | N.A. | 100.00 |
| 10-90 | 710.65 | N.A. | 79.10 |
| 20-40 | 335.42 | N.A. | 37.30 |
| 20-50 | 432.08 | N.A. | 48.10 |
| 40-70 | 155.05 | N.A. | 17.30 |
| 60-80 | 19.15 | N.A. | 2.10 |
| 70-80 | 8.17 | N.A. | 0.90 |
| 80-90 | 4.19 | N.A. | 0.50 |
| 90-110 | 0.40 | N.A. | 0.00 |
| 90-120 | 0.40 | N.A. | 0.00 |
| 90-130 | 0.40 | N.A. | 0.00 |
| 90-150 | 0.40 | N.A. | 0.00 |
| 90-180 | 0.40 | N.A. | 0.00 |
| 110-180 | 0.00 | N.A. | 0.00 |
| 0-180 | 898.51 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 187.46 |
| 10-20 | 207.82 |
| 20-30 | 163.80 |
| 30-40 | 171.62 |
| 40-50 | 96.66 |
| 50-60 | 47.41 |
| 60-70 | 10.98 |
| 70-80 | 8.17 |
| 80-90 | 4.19 |
| 90-100 | 0.40 |
| 100-110 | 0.00 |
| 110-120 | 0.00 |
| 120-130 | 0.00 |
| 130-140 | 0.00 |
| 140-150 | 0.00 |
| 150-160 | 0.00 |
| 160-170 | 0.00 |
| 170-180 | 0.00 |

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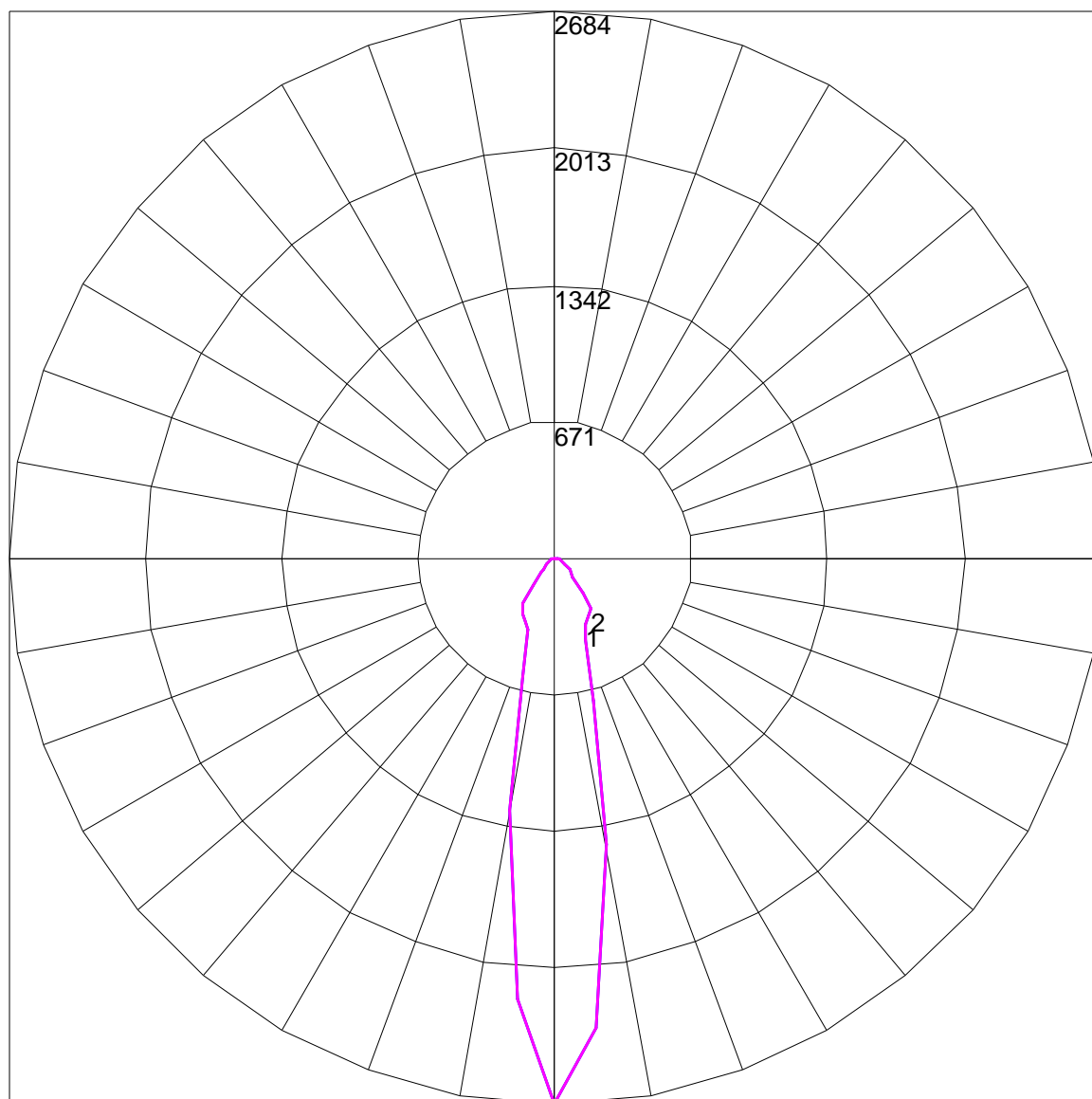
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

| RC | 80 | | | | 70 | | | | 50 | | | 30 | | | 10 | | | 0 |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 113 | 110 | 107 | 105 | 110 | 108 | 105 | 103 | 104 | 102 | 100 | 100 | 99 | 97 | 97 | 95 | 94 | 92 |
| 2 | 107 | 102 | 98 | 94 | 105 | 100 | 96 | 93 | 97 | 94 | 91 | 94 | 91 | 89 | 91 | 89 | 87 | 85 |
| 3 | 101 | 95 | 89 | 85 | 99 | 93 | 88 | 85 | 91 | 87 | 83 | 88 | 85 | 82 | 86 | 83 | 81 | 79 |
| 4 | 96 | 88 | 83 | 78 | 94 | 87 | 82 | 78 | 85 | 80 | 77 | 83 | 79 | 76 | 81 | 78 | 75 | 73 |
| 5 | 91 | 83 | 77 | 72 | 90 | 82 | 76 | 72 | 80 | 75 | 71 | 78 | 74 | 71 | 77 | 73 | 70 | 69 |
| 6 | 87 | 78 | 72 | 67 | 85 | 77 | 71 | 67 | 75 | 70 | 67 | 74 | 70 | 66 | 73 | 69 | 66 | 64 |
| 7 | 83 | 73 | 67 | 63 | 81 | 73 | 67 | 63 | 71 | 66 | 63 | 70 | 66 | 62 | 69 | 65 | 62 | 60 |
| 8 | 79 | 70 | 64 | 59 | 78 | 69 | 63 | 59 | 68 | 63 | 59 | 67 | 62 | 59 | 66 | 62 | 59 | 57 |
| 9 | 76 | 66 | 60 | 56 | 75 | 66 | 60 | 56 | 65 | 59 | 56 | 64 | 59 | 56 | 63 | 59 | 56 | 54 |
| 10 | 73 | 63 | 57 | 53 | 72 | 63 | 57 | 53 | 62 | 57 | 53 | 61 | 56 | 53 | 60 | 56 | 53 | 52 |

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POLAR GRAPH



Maximum Candela = 2684.149 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (0 - 180)